

Claims:

1. A winder including:

an extra section;

said extra section including:

a gripper; and



a brake;

said extra section for controlling a wire force without having to change a pitch diameter of the gripper or a sprocket.

- 2. A winder according to claim 1 in which the brake is a stationary brake
- 3. A winder according to claim 2 in which the brake is liquid cooled.

12



- 4. A winder according to claim 3 in which the torque transmitted to the frictional element is reduced without gearboxes or chains.
- 5. A method of controlling a wire winder said method COPY OF PAPERS ORIGINALLY FILED including:

as a tower travels around a tank, generating a square wave from the wheel drive;

feeding said square wave to a counter and counting a number of said square waves;

comparing the number of counts with a number selected by an operator for a spacing location;

powering a proportional hydraulic valve, and thereby pressurizing fluid into an elevator hydraulic motor;

thereby rotating the motor until the spacing counter has counted the pre-selected number; and

shutting the hydraulic flow.

- 6. A method according to claim 5 in which the square waves generated from the wheels and elevator motor are from optical encoders and fed to a counter.
- 7. A method according to claim 5 in which the square waves generated from the wheels and elevator motor are from segmental commutator rings and fed to a counter.
- 8. A method according to claim 5 in which a strip chart recorder records information from various transducers as the tower travels.
- 9. A method according to claim 8 in which the paper is fed in direct relation to the movement of the tower so that the location of events can be related to the events.

- 10. A method according to claim 8 in which the controller automatically turns on the recorder on and selects an appropriate paper speed.
- 11. . A method according to claim 5 in which the square wave provides feedback for low cost proportional valves.
- 12 A method of placing seismic cables, in which epoxy is used to protect the seismic cables from liquids.
- 13. A method of using seismic cables according to claim
  12 in which end caps are used to prevent liquid from
  entering ends of a cable and traveling through the
  cable.
- 14. A method of using seismic cables according to claim 12 in which the cable is filled along its length with epoxy.
- 15. A method of using seismic cables according to claim
  14 in which the cable is filled using an autoclave.

- 16. A method of using seismic cables according to claim
  14 in which the cable is filled by pumping epoxy through
  the core.
- 17. A method of using seismic cables according to claim
  14 in which the cable is filled by pulling epoxy through
  the core.
- 18. A method of using seismic cables according to claim
  14 in which the cable is also protected by a sacrificially
  coating said cables.
- 19. A method of using seismic cables according to claim
  14 in which the cable is also protected by a sacrificially
  coating said cables with zinc before applying epoxy filling
- 20. A method of using seismic cables according to claim 14 including applying abrasive material on the outside of the epoxy covering.

## 21. A wire winder system, including:

a tower for traveling around a tank,

a square wave generator for generation square waves as a function of motion of a wheel drive;

a counter for counting a number of said square waves;

means for comparing the number of counts with a number selected by an operator for a spacing location;

a proportional hydraulic valve, actuated in response to said comparing means,

an elevator hydraulic motor; actuated by pressurized fluid from said proportional valve to thereby rotate the motor until the spacing counter has counted the pre-selected number and shut the hydraulic flow.

motor are from segmental commutator rings and fed to a counter.